# SEED Method Toolkit: Literature Review Examples

Included examples:

- Question refinement example
- Question summary example
- Final refined research question example
- Research agenda example



Question topic area:	Support Systems/Coping Mechanism
----------------------	----------------------------------

Part I: TOPIC GROUP Data		
Question(s) as posed by Topic Group: (Question 3)	What are the factors of patient's faith (for example, knowing what happens when you die, feeling of peace or seeing family members again) and knowing family and community are praying for them; how does this affect lung cancer outcomes? Does it reduce stress and does it change your outlook?	
Outcomes of interest:	<ul> <li>Measurement for research:</li> <li>Stress – the ability to handle challenges and physical manifestations of stress (BP, muscle tension, biomarkers</li> <li>Measure of reliance on faith vs self-reliance</li> <li>Length of hospitalization</li> <li>Grief and family and patient</li> </ul>	
Populations of interest:	<ul> <li>Pastors</li> <li>Congregants of faith communities</li> <li>African Americans</li> <li>People of Faith</li> </ul>	
Other special concerns:	Measurement of faith and support from a faith community.	
Engaging Martinsville input: Quotes that help illustrate rationale and context of question:	<ul> <li>Initial thoughts about this questions were :</li> <li>Multiple questions in one.</li> <li>Would be hard to research.</li> <li>How do you measure faith?</li> <li>Comparing different faiths, denominations, and their approach to activities supporting parishioners who are ill.</li> <li>"Knowing where you are going when you die and knowing that you are going to see family again and that they are going to see you, takes that awful grieving away. You still grieve but it's like the grieving of those that don't have that assurance, and it definitely reduces stress even though being a Christian or not when you were told you first told you had cancer, it's like, but then you, you pray and get peace."</li> <li>"And um, it definitely does reduces stress and it changes your outlook, because you know that whether you live or you die, you are in God's hand."</li> </ul>	
	hand." "names some things that are related to faith and then wants to measure how that impacts stress and 13 is trying to hash out more of those factors of faith and how it affects lung cancer outcomes"	
Key words:	<ul> <li>Religiosity – broadest sense, is a comprehensive sociological term used to the numerous aspects of religious activity, dedication and belief.</li> <li>Intrinsic religiousness – religion that is an end to itself, a master motive, a framework of one's life.</li> <li>Religious coping – a means of dealing with stress that are religious. These include prayer, congregational support, pastoral care, religious faith.</li> </ul>	

<b>Prayer</b> – a request for help to God or other object of worship.
Key words for research used: religiosity, intrinsic religiousness,
religious coping, prayer, faith, outcomes, spirituality, religion, hope
health outcomes, quality of life, longevity, mortality, stress, attitudes,
perceptions.

Part II: Literature Review	
Studies that address th	e main question:
Citation:	Haghighi, Fatemeh. "Correlation between Religious Coping and
	Depression in Cancer Patients." <i>Psychiatria Danubina</i> 25, no. 3
	(September 2013): 236-40. (1)
Population studied:	Descriptive-correlational study was conducted on 150 consequent
	cancer patients in three centers. All patients with a confirmed
	diagnoses of cancer.
Methodology:	Two questionnaires including Pargament's questionnaire for
	evaluation of religious coping and the Beck depression inventory (BDI)
	were used. The Religious Coping Questionnaire (RCOPE) included 20
	items on a 5-point Likert scale rating which evaluated religious belief
	and practice including relationships with God, avoidant relationship
	with God and an alternately fearful and hopeful relationship.
Results/findings:	The study was carried out on 150 cancer patients and it was
	determined there was no significant difference between men and
	women in the mean score of avoidant relationship with God and
	alternate fearfulness and hopefulness (ambivalence coping style).
	The mean score of relationship with God in women was higher than
	men. The rate of depression was higher among patients who had an
	avoidant strategy.
	The religious coping method of relationship with God was effective in
	reducing depression.
	The rate of depression was lower among patients whose families had a
	better attitude to religion.
Research gaps:	Many studies have been done on religiosity and its impacts but few
	show definite/particular quality of life impacts. "Although, there was
	no relationship between positive religious coping and psychological
	distress, religious coping was correlated with multidimensional
	aspects of quality of life" (Ramirez et al. 2012)
Main take-away:	Psychotherapy, individual/familiar counseling, and especially
	increasing of religious beliefs such as praying and trust in God, as well
	as increasing the knowledge of patient and his/her family cause better
	acceptance of the disease and better confrontation of psychological
	problems.
Citation:	Pérez, John E., and Amy Rex Smith. "Intrinsic Religiousness and
	Well-Being among Cancer Patients: The Mediating Role of Control-
	Related Religious Coping and Self-Efficacy for Coping with Cancer."
	Journal of Behavioral Medicine 38, no. 2 (August 29, 2014): 183-
	93. doi:10.1007/s10865-014-9593-2.
	(2)

Population studied:	Cross sectional design of 179 ambulatory cancer patients. Participants
	were predominately white. Christian, and female with an average of 16
	vears of education.
Methodology:	179 adult cancer outpatients at three northeaster U.S. hospitals.
	Patients with stage II – stage IV cancer as well as advanced cancers
	Patients had to be 18 years or older and in active outpatient treatment
	Managuras usad. Demographic question pairs Medical chart review
	Intringia religious motivation gale Deligious coning (DCODE) Cancor
	Behavier Instructure brief container Frenching (RCOPE), Cancer
	therapy (FACT-G)
Results/findings:	"The relationship between intrinsic religiousness and well-being is
	fully mediated by control-related religious coping and self-efficacy for
	coping with cancer." Active religious surrender positively predicts self-
	efficacy for coping with cancer. Higher levels of self-efficacy for coping
	with cancer predict higher levels of the four different types of well-
	being. The four types of wellbeing include: physical, functional,
	emotional and social. "Intrinsic religiousness is the internalization of
	faith as the primary motive for people's lives." Several authors have
	fond that intrinsic religiousness is associate with better health and
	wellbeing. Among cancer patients, intrinsic religiousness has been
	positively associated with hope, meaning, and peace.
Research gans:	There were some limitations to the study to include: non-random.
riebeur en gaper	clinical sample was comprised of predominately white Christian
	females. They are unable to generalize the results of the study to
	nonulations that differ by race gender socioeconomic status and
	religious affiliation
Main tako away:	The findings suggest nathways by which intrinsic religiousness and
Main take-away.	control related religious coping are linked to various dimensions of
	well being among concernationts
	weil-being among cancer patients.
Citatian	Construction in the second sec
Citation:	Gene Meravigila, Martha. The Effects of Spirituality on Weil-Being
	of People with Lung Lancer." <i>Oncology Nursing Forum</i> 31, no. 1
	(January 1, 2004): 89–94. doi:10.1188/04.0NF.89-94. (5)
Population studied:	60 adults ranging from 33-83 years of age. Most participants had non-
	small cell lung cancer and were female, Caucasian and older than 50.
Methodology:	Participants completed a questionnaire composed of six survey
	instruments: Life Attitude Profile, Adapted Prayer Scale, Index of well-
	being, Symptom distress scale and background information sheet,
	cancer characteristic questionnaire.
Results/findings:	Higher meaning in life scores were associated with higher
	psychological well-being and lower symptom distress scores. Higher
	prayer scores were associated with higher well-being.
Research gaps:	More research is needed on the spiritual concepts to refine framework.
Main take-away:	Spirituality and prayer have a positive effect and positive physical
	response which may impact lung cancer outcomes. A higher level of
	meaning in life showed a lower symptom distress. "Higher prayer
	scores are related to better well-being. Meaning in life and praver
	loggen the impact of lung ganger on well being"

The study finds that people with lung cancer are unique in their
response to the impact for cancer. For example, people who were
unmarried, in need of income to meet their daily needs, experiencing
poor physical health or functional status, or currently receiving cancer
treatment reported more symptom distress. The findings emphasize
the importance of an individualized approach to care based on ongoing
circumstances.

Studies that address outcomes of interest:		
Citation:	Silvestri, Gerard A., Sommer Knittig, James S. Zoller, and Paul J.	
	Nietert. "Importance of Faith on Medical Decisions Regarding	
	Cancer Care." Journal of Clinical Oncology 21, no. 7 (April 1, 2003):	
	1379-82. doi:10.1200/JC0.2003.08.036. (4)	
Population studied:	One hundred patients with advanced lung cancer, their caregivers, and	
	257 medical oncologist were interviewed.	
Methodology:	One hundred patients with advanced lung cancer, their caregivers, and	
	257 medical oncologist were interviewed. Participants were asked to	
	rank importance of the following factors that might influence	
	treatments decisions: cancer doctor's recommendation, faith in God,	
	ability of treatment to cure disease, side effects, family doctor's	
	recommendations, spouse's recommendations and children's	
	recommendations.	
Results/findings:	All three groups ranked the oncologist recommendation as most	
	important. Patients and caregivers ranked faith in God second,	
	whereas physicians placed it last.	
Research gaps:	Future studies need to clarify HOW faith influences decision making.	
	One major limitation is that all patients and interviews were from	
	participants that were from the bible belt. This could potentially affect	
	the results by not including a diverse religious group.	
Main take-away:	"Patients and caregivers agree on the factors that are important in	
	deciding treatment for advanced lung cancer but differ substantially	
	from doctors. All agree that the oncologist's recommendation is most	
	important. This if the first study to demonstrate that, for some, faith is	
	an important factor in medical decision making, more so than even the	
	efficacy of treatment. In faith plays an important role in how some	
	patients decide treatment, and physicians do not account for it, the	
	decision making process may be unsatisfactory to all involved."	
	Medical decision making can certainly affect outcomes for the patient,	
	therefore making a correlation between faith – decision making –	
	outcomes. The authors feel this is the report regarding the difference of	
	how physicians, caregivers and patients view influences of medical	
	decision making.	
Citation:	Juliana, Franceschini, José R. Jardim, Ana Luisa Godoy Fernandes,	
	Sérgio Jamnik, and Ilka Lopes Santoro. "Reliability of the Brazilian	
	Version of the Functional Assessment of Cancer Therapy-Lung	
	(FACT-L) and the FACT-Lung Symptom Index (FLSI)." Clinics (Sao	
	<i>Paulo, Brazil</i> ) 65, no. 12 (2010): 1247–51, (6)	

Population studied:	30 patients with lung cancer were recruited from an outpatient lung
	cancer clinic.
Methodology:	The FACT-L with the FLSI questionnaire was prospectively
	administered to 30 consecutive, stable, lung cancer patients.
Results/findings:	The FACT-L with FLSI questionnaire is reliable, quick and simple to
	apply. The instrument can be used to evaluate the quality of life of
	Brazilian lung cancer patients.
Research gaps:	Translation of the FACT to other languages
Main take-away:	The primary purpose of the study was to review the reliability of the
	FACT-L assessment in conjunction with the FACT-Lung Symptom Index
	questionnaire to prove quality of life. This assessment could
	potentially be used with the spiritual assessments to evaluate lung
	symptoms and prove quality of life either being better or worse.
	Quality of life has become an important aspect for <i>clinical trials</i> and
	important research agenda to prove or not that spirituality does
	improve the quality of life.

Citation:	Monod, Stéfanie, Mark Brennan, Etienne Rochat, Estelle Martin,
	Stéphane Rochat, and Christophe J. Büla. "Instruments Measuring
	Spirituality in Clinical Research: A Systematic Review." Journal of
	General Internal Medicine 26, no. 11 (November 2011): 1345–57.
	doi:10.1007/s11606-011-1769-7. (7)
Population studied:	35 instruments were used to measure spirituality in clinical research.
	The literature search initially began with 1575 citation and were
	narrowed down to 35 instruments. The instrument was validated in
	the largest and most diverse population by using 5087 participants in
	18 countries through the World Health Organization.
Methodology:	A systematic search in MEDLINE, CINHAL, psycINFO, ATLA and
	EMBASE databases using terms such as "spirituality"
Results/findings:	Thirty five instruments were classified into measure of spirituality
	(22), spiritual well-being (4), spiritual coping (4), and spiritual needs
	(4). The instruments that are most frequently used are the FACIT-SP
	and Spiritual Well-being scale.
Research gaps:	The study also highlights the absence of instruments to measure poor
	spiritual well-being
Main take-away:	This review provides details on instruments that assess spirituality and
	the relationship between spirituality and health. The first reaction of
	the research team members and the topic group members was that no
	one could imagine there would be measurement tools for spirituality.
	The research question is one that one would think was open ended and
	did not have the ability to connect with other assessments to prove or
	disprove the connection of spirituality (prayer) and outcomes. After
	the literature review, it is clear that many have interest in the
	relationship between spirituality and well-being – therefore resulting
	in good outcomes but have had some challenges to try to use the
	appropriate/effective tools to create a constructive and concrete way
	of evaluating the two to prove results. Much research is still to be done

regarding this relationship. More research is needed on the
relationship of spirituality and wellbeing.

Citation:	Smith, Amy Rex, Susan DeSanto-Madeya, John E. Pérez, Elizabeth F. Tracey, Susan DeCristofaro, Rebecca L. Norris, and Shruti L. Mukkamala. "How Women with Advanced Cancer Pray: A Report from Two Focus Groups." <i>Oncology Nursing Forum</i> 39, no. 3 (May 1, 2012): E310-316. doi:10.1188/12.ONF.E310-E316. (8)
Population studied:	13 adult females outpatients receiving active treatment for ovarian or lung cancer.
Methodology:	Two focus groups were conducted with data coding and analysis using standard procedures.
Results/findings:	"Four themes emerged: finding one's own way, renewed appreciation for life, provision of strength and courage, and gaining a stronger spiritual connection. In addition, praying for others, conversational prayer, petition prayer, ritual prayer and thanksgiving prayer were used most often by participants to cope.
Research gaps:	There is research on hope and wellbeing with many types of cancer; however there is limited research on spirituality and lung cancer.
Main take-away:	The findings support that prayer is a positive coping mechanism. The goal was to look at the meaning of prayer and identify the effects that it has. In conclusion of the focus groups, it was identified that prayer was an important factor for coping in cancer diagnosis.

Citation:	Lissoni, P., G. Messina, D. Parolini, A. Balestra, F. Brivio, L.
	Fumagalli, L. Vigore, and F. Rovelli. "A Spiritual Approach in the
	Treatment of Cancer: Relation between Faith Score and Response
	to Chemotherapy in Advanced Non-Small Cell Lung Cancer
	Patients." In Vivo (Athens, Greece) 22, no. 5 (October 2008): 577–
	81. (12)
Population studied:	50 consecutive patients who were suffering from metastatic non-small cell lung cancer.
Methodology:	A clinical approach to investigate spiritual faith.
Results/findings:	The study suggest that there is evidence of a "high degree of faith as an expression of an active spiritual life was associated with a greater efficacy of cancer chemotherapy and may predict a longer survival in metastatic cancer patients." The study suggest that the positive influence of spiritual faith in patients who were receiving chemotherapy vs those without faith.
Research gaps:	This study was specific to non-small cell lung cancer with metastatic disease.
Main take-away:	The preliminary study suggest that evidence of a high degree of faith as an expression of an active spiritual life was associated with great efficacy of cancer treatment and may predict a longer survival rate. This study was directly focused on lung cancer and could possibly be used for other types of cancer. The study did emphasis the importance faith has and the influencing factors on neoplastic disease. Further

research will be needed in a greater number of patients to confirm the
data.

Studies that address sp	pecific populations of interest:
Citation:	Achour, Meguellati, Fadila Grine, Mohd Roslan Mohd Nor, and Mohd Yakub Zulkifli MohdYusoff. "Measuring Religiosity and Its Effects on Personal Well-Being: A Case Study of Muslim Female Academicians in Malaysia." <i>Journal of Religion and Health</i> 54, no. 3 (April 27, 2014): 984–97. doi:10.1007/s10943-014-9852-0. (3)
Population studied:	315 Muslim female of academic staff as respondents working in Research Universities.
Methodology:	Data was completed by 450 female academic staff working in Research University in Klang Valley. A total of 315 questionnaires were returned with a response rate of approximately 70%. The ages of the respondents ranged from 30-60 years.
Results/findings:	A positive and significant correlation between personal well-being and religiosity. Well-being shows significant positive correlations with beliefs and worship.
Research gaps:	The article does not address lung cancer impacts/outcomes. The emphasis is primarily on correlation of faith and well-being. Many research projects have been done regarding faith and well-being but more research needs to be done in different religious sectors and correlation of impacts on patients with cancer.
Main take-away:	A positive correlation of faith, prayer and religiosity affecting overall well-being of women in the Muslim faith. If it creates a positive correlation in life overall, would it continue in tragedies of life, cancer diagnosis and other challenges faced in life.
Citation:	Rawdin, Blake, Carrie Evans, and Michael W. Rabow. "The Relationships among Hope, Pain, Psychological Distress, and Spiritual Well-Being in Oncology Outpatients." <i>Journal of Palliative</i> <i>Medicine</i> 16, no. 2 (February 2013): 167. doi:10.1089/jpm.2012.0223. (9)
Population studied:	78 patients who were care in a comprehensive oncology center.
Methodology:	Patients were recruited from a Symptom Management Service (SMS) who were 18 years of age or older who had a diagnosis of cancer.
Results/findings:	95 patients were approached and 78 agreed to participate. The sample consisted of 64% women and 36% men with a mean age of 57.6 years. Levels of hope were not associated with age, gender or the presence of metastatic disease. This study was performed due to the lack of research on the relationship between hope and pain among cancer patients. The findings suggest that hope is related most closely to psychosocial elements of the pain experience, rather than pain intensity. "hope is a key clinical and perhaps therapeutic variable, affecting cancer patients"
Research gaps:	Lack of causal relationships between hope and pain. The limitations were that the study was cross sectional and it would be ideal if there

	was a longitudinal study between causal links between hope, pain, and psycho-spiritual factors.
Main take-away:	The study suggest "that when confronted with a patient who seems to
	have "lost hope," the physician should look beyond pain measures and
	explore psychological adjustment and spiritual concerns.

Studies that address patients with/at risk for lung cancer.			
Citation:	Clay, Kimberly S., Costellia Talley, and Karen B. Young. "EXPLORING SPIRITUAL WELL-BEING AMONG SURVIVORS OF COLORECTAL AND LUNG CANCER." Journal of Religion &		
	Spirituality in Social Work 29, no. 1 (January 1, 2010): 14–32.		
	doi:10.1080/15426430903479247. (10)		
Population studied:	800 survivors was drawn from the Alabama CanCORS cohort, who had		
	a diagnosis of cancer, less than one year post treatment, 18 years or		
	baseline questionnaire		
Methodology:	The survey was mailed to potential participants. Of the 800 surveys.		
hemouology	343 (43%) were completed and returned. Spiritual well-being was		
	measured using an expanded version of the FACIT-SP.		
Results/findings:	The purpose of the study was to characterize spiritual well-being in		
	newly-diagnosed survivors of colorectal and lung cancer. The study		
	and lung cancer survivors. There is some question of defining a lung		
	cancer survivor regarding survivorship as "the period extending from		
	the time of diagnosis throughout the balance of life"		
Research gaps:	Limitation included a cross-sectional descriptive, correlation design		
	which only identifies asocial of a specific point in time. The study did		
	differences may exist between those who volunteered and those who		
	refused participation in the study. There are some studies that have		
	been done to link spiritual well-being and breast cancer survivorship,		
	there are no published studies of the examination among colorectal		
	and lung cancer. The lack of adequate and accurate data on colorectal		
	because of the significant incidence they both account for.		
Main take-away:	Future research is needed on survivors of colorectal or lung cancer and		
	spiritual-based therapeutic and lifestyle interventions must be		
	developed to potentially treat or ameliorate the physiologic and		
	psychosocial late effects of cancer in general.		
	workers to assess spiritual well-being in cancer survivors to		
	strengthen treatment plans, which can change outcomes.		
Citation:	Steinhauser, Karen E., Stewart C. Alexander, Ira R. Byock, Linda K.		
	George, Maren K. Olsen, and James A. Tulsky. "Do Preparation and		
	Life in Serievely III Patiente? Bilet Pandomized Control Trial "		
	Life in seriously in ratients: rhot Kanuolinzeu Control 1 flal.		

	Journal of Palliative Medicine 11, no. 9 (November 2008): 1234-			
	40. doi:10.1089/jpm.2008.0078. (11)			
Population studied:	82 hospice eligible patients enrolled in the study: 38 were women and			
	35 were African American.			
Methodology:	Baseline measurement assessed pain and symptoms, functional status,			
	anxiety, depression, quality of life at the end of life, and daily spiritual			
	experience.			
Results/findings:	Participants in the active discussion showed improvements in			
	functional status, anxiety, depression and preparation for end of life.			
	The study concluded that patient emotional and spiritual well-being			
	were identified as part of two larger domains: end of life preparation			
	and completion.			
Research gaps:	50% of the participants were not able to complete the study due to			
	functional decline or death. Sample size was not large enough to show			
	statistical significance.			
Main take-away:	A concept model was created and show that patients living with			
	advanced serious illnesses face challenges associated with physical,			
	psychosocial, spiritual, and emotional concerns. Attention to these is			
	required to reduce suffering and increase quality of life.			

Studies that address any other special concerns:					
Citation:	Granero-Molina, J., M.m. Díaz Cortés, J. Márquez Membrive, A.m.				
	Castro-Sánchez, O.m. López Entrambasaguas, and C. Fernández-				
	Sola. "Religious Faith in Coping with Terminal Cancer: What Is the				
	Nursing Experience?" European Journal of Cancer Care 23, no. 3				
	(May 1, 2014): 300-309. doi:10.1111/ecc.12150. (13)				
Population studied:	23 nurses who had cared for people with terminal cancer for at least				
	six months.				
Methodology:	A qualitative approach. The participants were nurses, Masters in				
	Nursing.				
Results/findings:	The statements in the students were that faith in relation to end-of-life				
	was apparent. Traditional faith and religious beliefs continue to be an				
	important aspect in relation to end-of-life. The goal of the study was to				
	understand how significant faith is during the end-of-life process.				
Research gaps:	Research shows that faith in coping is essential but is individualized				
	and changeable. "Some studies have found a correlation between faith				
	and finding peace and a meaning to life for cancer patients" The need				
	for a larger review of nurses who were unaware of the study and also				
	include a better selection of nurses who's age ranges will give a better				
	source of information towards the study.				
Main take-away:	Knowledge by the nursing staff of knowing how important spirituality				
	is can help to improve the quality of life for individuals with a terminal				
	cancer diagnosis.				
	Three main themes:				
	Faith facilitates the coping process – "faith can help to give meaning to				
	the dying process, giving answer in the search for reason of existence."				
	Faith hinders the cooping process – some participants will reflect on				
	divine punishment; therefore hindering the coping process. The				

patients feel they are being punished by God for certain habits or life
situations. Guild can cause some spiritual suffering for patients.
Terminal illness impacts faith – Terminal illness can affect patients and
families differently ton include doubting faith, strengthening faith and
even abandoning faith. Anger can take over and cause abandonment in
their faith and family due to overwhelming feelings of resentment and
abandonment from God.

Part III: Summary of the Literature			
What we know	What we need to know more about		
Research on the	e main question		
There are spiritual tools to assist with measuring spirituality. These tools are also taken with other tools such as FACT-L tools to evaluate quality of life. In conjunction we are able to assess spirituality and increase/decrease of quality of life. This tool is reliable, quick and simply to apply. There are so many measurement tools that it is difficult to address which one is the most affective and accurate.	Little is known about the outcomes specifically regarding lung cancer. How does early/late detection factor into the connection of spirituality and quality of life/outcomes.		
Religious coping is effective with reducing depression and that depression was lower among patients whose family members had a better attitude and connection with faith.	What aspects of family members connection with faith directly impacts patients with lung cancer. What attributes to the lowering of depression?		
Active religious surrender affects coping with cancer	What coping skills are directly affected? What types of cancer are going to reflect this statement due to the fact that different cancers offer different responses from their patients? Lung cancer is typically found in late stage and the coping mechanism may not be the same as one diagnosed with a cancer that is early and considered non-life threatening.		
Higher prayer is associated with higher well being	Does well being differ in patients with different cancer diagnosis? For example, breast vs lung or colon vs lung or bladder vs lung?		
Research on out	comes of interest		
Quality of life indicators can be vastly different per individuals. Lung Cancer offers a different set of issues because of the expected high mortality rate; therefore causing individuals to experience fear and apprehension immediately in the initial diagnosis stage.	More research regarding standards that outline quality of life indicators for lung cancer patients. Lung cancer patients present with different barriers that most cancer diagnosis due to breathing issues causing anxiety and stress. Also, lung cancer patients are typically diagnosed at a later stage; therefore creating more anxiety facing the terminal disease and prognosis.		

Research on populations of interest			
Cancer in general has been researched in	Which populations are most impacted? Are		
connection with spirituality/quality of	their particular religious sectors that provide		
life/outcomes	more/less quality of life outcomes?		
Research on patients with/at risk of lung cancer			
Specific studies for lung cancer are limited.	Does a lung cancer diagnosis fall within the		
This is due to some studies being incomplete	realms of other cancer diagnosis due to the fact		
due to lack of interest, length of study,	that it does have a high mortality rate and also		
	physical complications create more barriers for		
	patients with coping and wellbeing?		
Research on any oth	ner specific concerns		
Studies on religious coping, religiosity, effects	Are there any particular tools that are more		
of spirituality, measurement tools (numerous),	effective when measuring these?		
well-being, end of life with lung cancer.			
	How can increasing focus on spirituality		
	increase patients to choose care at facilities		
	who provide this service – spirituality,		
	counseling, support groups. (The increase of		
	patients choosing facilities who offer these		
	services may cause facilities to focus on		
	providing these to increase revenue – this		
	could be a winning situation for patients who		
	are in rural areas that are going outside of the		
	area because of perceived "better services")		
	Typically there are differences of how		
	physicians assess spirituality and its		
	importance. Continued education of support of		
	patients from a spiritual aspect to cross over to		
	providers, nursing, social workers and others		
	who are providing caregivers to lung cancer		
	patients.		
	How do you measure poor spiritual wellbeing?		
	How would clinical investigations on spiritual		
	faith affect the concept and application of these		
	tools affect lung cancer patients wellbeing? If		
	clinical providers acknowledged and accepted		
	spiritual effects on patient outcomes. would		
	they be more willing to adopt these practices in		
	their daily treatment plans.		

Part IV: Where are the research gaps? (Fill in where relevant)			
Substantive	Long term studies are typically not available.		
(e.g., Patient perceptions/knowledge, clinical	Many participants are unable to finish studies		
care, interventions, outcomes (including long	due to declining health or death.		
term outcomes), comparative effectiveness,			
communication/education, policy)			
Methodological	Most studies include questionnaires.		
(e.g., study design and methods)			

Population	Available participants that cover a multi-cultural
(e.g., Race, socioeconomic status, health	group. Age gaps and inconsistent age gaps.
status, geography, age, vulnerable	Typically more female participants than male.
populations, workers)	

Suggested	l Re-wor	ding of	f research	questions:
Jappebeee			I COCAI CII	quebelonoi

#### **Research Questions :**

1. How does faith affect a lung cancer patient's decisions about their clinical care?

2. How does faith affect a lung cancer patients outcomes vs a lung cancer patient without faith?

3. What specific lung cancer outcomes are affected by Faith?

4. Does faith reduce stress and improve survival of lung cancer patients?

#### **Research Questions (after groups feedback)**

1. How does faith affect a lung cancer patient's decisions about their clinical care?

2. How does faith affect a lung cancer patients outcomes vs a lung cancer patient without faith?

3. What specific lung cancer outcomes are affected by faith?

4. Does faith reduce stress and improve survival of lung cancer patients?

#### Final Research Questions (after VCU feedback)

- 1. How does religious faith affect lung cancer patients' decision making about their treatment options and health care?
- 2. How do patient lung cancer outcomes differ between people with and without faith?
  - 3. What health and quality of life outcomes are impacted by religious faith among patients with lung cancer, including stress and survivorship?

### **Question Refinement Summary Example**

Question(s) as posed by Topic group:	What are the factors of patient's faith (for example, knowing what happens when you die, feeling of peace or seeing family members again) and knowing family and community are praying for them; how does this affect lung cancer outcomes? Does it reduce stress and does it change your outlook?
Outcomes of interest:	<ul> <li>Measurement for research:</li> <li>Stress – the ability to handle challenges and physical manifestations of stress (BP, muscle tension, biomarkers</li> <li>Measure of reliance on faith vs self-reliance</li> <li>Length of hospitalization</li> <li>Grief and family and patient</li> </ul>
Populations of interest:	<ul> <li>Pastors</li> <li>Congregants of faith communities</li> <li>African Americans</li> <li>People of Faith</li> </ul>
Other special concerns:	Measurement of faith and support from a faith community.
Engaging Martinsville input:	<ul> <li>Initial thoughts about this questions were :</li> <li>Multiple questions in one.</li> <li>Would be hard to research.</li> <li>How do you measure faith?</li> <li>Comparing different faiths, denominations, and their approach to activities supporting parishioners who are ill.</li> </ul>

#### **Literature Reviewed**

Haghighi, Fatemeh. "Correlation between Religious Coping and Depression in Cancer Patients." *Psychiatria Danubina* 25, no. 3 (September 2013): 236–40. (1)

Pérez, John E., and Amy Rex Smith. "Intrinsic Religiousness and Well-Being among Cancer Patients: The Mediating Role of Control-Related Religious Coping and Self-Efficacy for Coping with Cancer." *Journal of Behavioral Medicine* 38, no. 2 (August 29, 2014): 183–93. doi:10.1007/s10865-014-9593-2. (2)

Achour, Meguellati, Fadila Grine, Mohd Roslan Mohd Nor, and Mohd Yakub Zulkifli MohdYusoff. "Measuring Religiosity and Its Effects on Personal Well-Being: A Case Study of Muslim Female Academicians in Malaysia." *Journal of Religion and Health* 54, no. 3 (April 27, 2014): 984–97. doi:10.1007/s10943-014-9852-0. (3)

Silvestri, Gerard A., Sommer Knittig, James S. Zoller, and Paul J. Nietert. "Importance of Faith on Medical Decisions Regarding Cancer Care." *Journal of Clinical Oncology* 21, no. 7 (April 1, 2003): 1379–82. doi:10.1200/JCO.2003.08.036. (4)

Gene Meraviglia, Martha. "The Effects of Spirituality on Well-Being of People With Lung Cancer." *Oncology Nursing Forum* 31, no. 1 (January 1, 2004): 89–94. doi:10.1188/04.ONF.89-94. (5)

Juliana, Franceschini, José R. Jardim, Ana Luisa Godoy Fernandes, Sérgio Jamnik, and Ilka Lopes Santoro. "Reliability of the Brazilian Version of the Functional Assessment of Cancer Therapy-Lung (FACT-L) and the FACT-Lung Symptom Index (FLSI)." *Clinics (Sao Paulo, Brazil)* 65, no. 12 (2010): 1247–51. (6)

Monod, Stéfanie, Mark Brennan, Etienne Rochat, Estelle Martin, Stéphane Rochat, and Christophe J.

Büla. "Instruments Measuring Spirituality in Clinical Research: A Systematic Review." *Journal of General Internal Medicine* 26, no. 11 (November 2011): 1345–57. doi:10.1007/s11606-011-1769-7. (7)

Smith, Amy Rex, Susan DeSanto-Madeya, John E. Pérez, Elizabeth F. Tracey, Susan DeCristofaro, Rebecca L. Norris, and Shruti L. Mukkamala. "How Women with Advanced Cancer Pray: A Report from Two Focus Groups." *Oncology Nursing Forum* 39, no. 3 (May 1, 2012): E310-316. doi:10.1188/12.0NF.E310-E316. (8)

Rawdin, Blake, Carrie Evans, and Michael W. Rabow. "The Relationships among Hope, Pain, Psychological Distress, and Spiritual Well-Being in Oncology Outpatients." *Journal of Palliative Medicine* 16, no. 2 (February 2013): 167. doi:10.1089/jpm.2012.0223. (9)

Clay, Kimberly S., Costellia Talley, and Karen B. Young. "EXPLORING SPIRITUAL WELL-BEING AMONG SURVIVORS OF COLORECTAL AND LUNG CANCER." *Journal of Religion & Spirituality in Social Work* 29, no. 1 (January 1, 2010): 14–32. doi:10.1080/15426430903479247. (10)

Steinhauser, Karen E., Stewart C. Alexander, Ira R. Byock, Linda K. George, Maren K. Olsen, and James A. Tulsky. "Do Preparation and Life Completion Discussions Improve Functioning and Quality of Life in Seriously Ill Patients? Pilot Randomized Control Trial." *Journal of Palliative Medicine* 11, no. 9 (November 2008): 1234–40. doi:10.1089/jpm.2008.0078. (11)

Lissoni, P., G. Messina, D. Parolini, A. Balestra, F. Brivio, L. Fumagalli, L. Vigore, and F. Rovelli. "A Spiritual Approach in the Treatment of Cancer: Relation between Faith Score and Response to Chemotherapy in Advanced Non-Small Cell Lung Cancer Patients." *In Vivo (Athens, Greece)* 22, no. 5 (October 2008): 577–81. (12)

Granero-Molina, J., M.m. Díaz Cortés, J. Márquez Membrive, A.m. Castro-Sánchez, O.m. López Entrambasaguas, and C. Fernández-Sola. "Religious Faith in Coping with Terminal Cancer: What Is the Nursing Experience?" *European Journal of Cancer Care* 23, no. 3 (May 1, 2014): 300–309. doi:10.1111/ecc.12150. (13)

Suggested Re-wording of research questions:	
Research Questions :	
1. How does faith affect a lung cancer patient's decisions about their clinical care?	
2. How does faith affect a lung cancer patients outcomes vs a lung cancer patient without faith?	
3. What specific lung cancer outcomes are affected by Faith?	
4. Does faith reduce stress and improve survival of lung cancer patients?	
Research Questions (after groups feedback)	
1. How does faith affect a lung cancer patient's decisions about their clinical care?	
2. How does faith affect a lung cancer patients outcomes vs a lung cancer patient without faith?	
3. What specific lung cancer outcomes are affected by Faith?	
4. Does faith reduce stress and improve survival of lung cancer patients?	
Final Research Questions (after VCU feedback)	
1. How does religious faith affect lung cancer patients' decision making about their treatment	
options and health care?	
2. How do patient lung cancer outcomes differ between people with and without faith?	
3. What health and quality of life outcomes are impacted by religious faith among patients with	
lung cancer, including stress and survivorship?	

### Final Refined Research Questions - Example

Please see below for an example from the Martinsville, VA demonstration.

#### **Question category: Social**

1. How does religious faith affect lung cancer patients' decision making about their treatment options and health care?

- How do patient lung cancer outcomes differ between people with and without faith?
- What health and quality of life outcomes are impacted by religious faith among patients with lung cancer, including stress and survivorship?

The **SEED** (Stakeholder Engagement in quEstion Development and prioritization) **Method** is a new stakeholder engagement methodology that combines engagement with a review of available evidence to generate research questions that address current research gaps that are important to patients and other stakeholders.

The first demonstration of the SEED Method took place during 2015 in Richmond, VA in a primarily low-income, urban, African American community. The health topic of focus was diet and behavioral management for diabetes and hypertension.

**Stakeholder engagement:** The SEED Method allowed stakeholders to participate through three different modes of engagement: collaborative, participatory, and consultative.

**Collaborative engagement:** This level of engagement consisted of a research team derived from an existing community-university partnership made up of academic faculty, staff, and community residents. The Research Team was engaged throughout the project and were responsible for selecting and recruiting participants, data collection and analysis, and facilitation of Topic group meetings and activities.

**Participatory engagement:** This level consisted of groups of stakeholders (Topic groups) selected by the research team based on their experience with and knowledge of diet and behavioral challenges in diabetes and hypertension management. Three groups of stakeholders were convened to participate in a series of meetings that resulted in the development and prioritization of research questions. The groups included: 1) seniors with diabetes or hypertension who were overweight or had cardiovascular disease (n=8), 2) adults with diabetes or hypertension with limited health care access of other specific challenges (e.g. history of homelessness or substance use) (n=7), and 3) nurses, health educators, and other local services providers (n=8).

**Consultative engagement:** To broaden the Topic groups' understanding of the experiences of different stakeholders, this level of engagement consisted of focus groups and one-on-one interviews. Five focus groups were conducted, composed of: African American females, seniors, food pantry clients, Supplemental Nutrition Assistant Program (SNAP) recipients, and people taking medications for diabetes and hypertension. Eleven interviews were conducted with health care workers, service providers, and parents of children with diabetes.

**SEED Methodology:** The SEED Method followed a six-step process that included 1) identifying the health topic and recruiting participants, 2) conducting focus groups and interviews, 3) developing conceptual models, 4) developing research questions, 5) prioritizing research questions, and 6) creating a dissemination plan and distributing the final research agenda.



**Development of Research Agenda:** In total 18 research questions were prioritized by the Topic groups. Each question was researched and finalized by a review team of VCU researchers through a review of the scientific literature. The review explored what parts of each question had already been answered by prior studies and made recommendations to get at issues that remain unanswered empirically. Based on the review conducted for each question, the review team made recommendations to address relevant gaps in the peer reviewed literature. As a final step, research and subject matter experts were consulted on each finalized questions for feedback on the wording of the recommendations and to ensure their relevance to their respective fields of study.

#### Patient and Stakeholder Developed Research Topics Related to Diet and Behavioral Management for Diabetes and Hypertension (Reprinted with permission from the American Journal of Preventive Medicine)

#### **Risk factors and health behaviors**

1. Does a person's **functional capacity** (physical and cognitive) influence their ability to follow their diet?

- Among people with diabetes or hypertension, how do functional capacity (physical and cognitive) and geriatric conditions (such as visual impairment, mobility) impact the ability to follow dietary recommendations?
- How and why does a person's functional capacity influence their ability to follow the recommended diet for diabetes and hypertension?
- What are the long-term diabetes and hypertension-related health outcomes for people with limited functional capacity or geriatric conditions?

2. What is the impact of **drug and alcohol use** on diet compliance?

- What are optimal and practical ways to screen for co-morbid substance abuse disorder in patients with diabetes or hypertension?
- Can health care providers use information on type and frequency of substance use to inform dietary recommendations?
- What is the efficacy and cost-effectiveness of substance abuse screening, brief intervention, and referral to treatment (SBIRT) in improving outcomes for individuals with coexisting substance use disorder and diabetes?
- What is the comparative effectiveness of different interventions that integrating SBIRT for alcohol and other drug use problems into diabetes care models?
- 3. Do **cognitive impairment and dementia** impact self-care behaviors and health outcomes in people with diabetes and hypertension?
  - At what levels and domains of cognitive impairment are patients most likely to become at risk of non-adherence to diabetes self-care management?

- What are the healthcare needs and goals of patients with cognitive impairment and diabetes and what are the needs of their caregivers? How are these different from the needs of patients without cognitive impairment?
- What are the most effective strategies for successfully managing both cognitive impairment and diabetes?
- 4. Does not having enough **sleep** affect diet for people with diabetes and hypertension, and how do specific sleep patterns affect diet?
  - What are the current levels of patients' knowledge, perceptions and understanding of the relationship between sleep and health outcomes related to diabetes and hypertension?
  - Are health care providers regularly and effectively communicating with patients about the impact of sleep duration on weight, glucose control, diabetes risk and hypertension?
  - Which interventions can improve sleep duration among patients with diabetes or hypertension? What is the effectiveness among at risk populations, including African Americans, shift workers, younger, and low-income groups?
  - What communication strategies or tools can improve patient-centered information about the risk of insomnia and changes in sleep patterns related to anti-hypertensive agents and other drugs for hypertension or diabetes?

### Health care communication/knowledge and perceptions

- 5. What strategies are available to identify and enhance patients' **sense of control** related to following the recommended diet?
  - What is the comparative effectiveness of interventions for increasing patients' empowerment and improving dietary compliance over time? (Strategies include empowerment-based diabetes selfmanagement education programs; web-based tools and social media)
  - How can interventions for empowering patients be incorporated into different clinical settings?
- 6. If mental health patients were given **nutrition guidelines and information**, would it affect overall health?
  - What strategies and interventions are most effective in improving the diet and nutrition of people with severe mental illnesses, particularly those who continue to have uncontrolled diabetes or hypertension?
  - What strategies and interventions are most effective in improving the diet and nutrition for elderly patients with severe mental illnesses?
  - Which health professionals or service providers are best able to assist patients with severe mental illness, especially those navigating multiple systems and medication routines?

7. Will controlling diabetes and hypertension **prevent other diseases** or more serious illness?

What are the most effective strategies for communicating risk of complications to patients with diabetes or hypertension?

- What are the most effective strategies for communicating risk information among special populations, such as patients with low health literacy, low income, and elderly patients and are they being used in care settings?
- How do patients' understanding of risk information and related health beliefs predict clinical outcomes and development of complications?
- What is the effect of diabetes combined self-management education and training (DSME/T) on clinical outcomes and development of complications?

8. How does knowing about your diet and risks help with understanding diabetes?

- What are the strongest influences on patient perception (knowledge, understanding, attitudes) of diabetes, and what are the best practices for altering perceptions that prevent effective disease management?
- What are the most effective strategies for integrating nutrition education into regular diabetes care administered by health professionals to improve diet?
- How does patient perception of diabetes differ by age and health literacy?
- 9. How could provider/patient communication about the **science of nutrition and exercise** be simplified and made more interactive?
  - How can nutrition and physical activity counseling in primary care be improved and made more understandable for patients?
  - What strategies and messages are being utilized during a primary care visit or over a course of visits? How can messages be tailored to the health literacy, cultural context, and motivation of individual patients?
  - What is the comparative effectiveness of different nutrition counseling strategies in patient uptake and outcomes? What about physical activity counseling?
  - What are effective strategies for combining primary-care based counseling with follow up interventions and access to information (e.g., telephone, web and text-based delivery) and getting those services reimbursed?

### Health care delivery and quality

10. Will having a **regular doctor** improve diabetes and hypertension self-management?

- What factors affect the relationship between having a regular doctor and patient-centered health outcomes among patients with diabetes and hypertension? What is the role of race/ethnicity, mental health conditions, and low socioeconomic status?
- What are the most effective strategies for arranging a regular doctor for patients with diabetes/hypertension, including patients with mental health challenges, with a regular care provider or medical home?

11. How are healthcare quality and **trust in one's doctor** related, and how does that impact diabetes and hypertension management?

- How does continuity of care impact patient trust in patients with diabetes/hypertension who are uninsured or have limited access to care? What are the best strategies for increasing continuity of care in this population?
- ♦ What aspects of care continuity predict patient trust and improved health outcomes?
- What are the most effective interventions for increasing patient trust, especially among vulnerable populations?

12. Would communicating with your primary care provider for **longer periods of time** during a given visit lead to better prioritizing and self-management behavior for diabetes and hypertension?

How does the length of consultation with primary care physicians impact self-management behaviors and clinical outcomes in patients with diabetes and hypertension? Does an increase in appointment length lead to improved clinical outcomes and patient self-management behaviors?

### Health economics

13. How does the inability to pay an insurance co-payment affect your health care?

- How does cost sharing affect health care utilization for patients with diabetes or hypertension who have low- and very low incomes, including those who are food insecure?
- Among people with diabetes or hypertension, what types of health care services are reduced as a result of cost sharing?
- How do long-term health outcomes of people with diabetes or hypertension differ with cost sharing versus those not subject to cost sharing?
- What is the impact on health care utilization and health outcomes of programs that reduce or cap cost sharing among vulnerable low-income groups? What is the impact by race/ethnicity?
- How do co-payments affect health care utilization decisions, including patient perceptions, knowledge, preferences, strategies and the impact of competing needs? How do patients describe the impact of co-payments on these decisions and strategies?

### Policy

14. How is the amount of **Supplemental Nutrition Assistance Program (SNAP) benefits** determined for those who qualify and how does that match up with need?

- How can SNAP qualifications and benefit levels be adjusted to reflect the needs of individuals with chronic, diet-sensitive conditions?
- How can the SNAP program work with individuals with diet-sensitive conditions to improve diet quality and diabetes self-management?
- What is the risk, based on longitudinal data, for negative health outcomes among food insecure individuals with (or at risk of) diabetes or hypertension? What role do SNAP benefits play in mitigating negative outcomes?

15. How could we encourage communities to focus on **economic development** in high risk areas to have the highest impact on dietary compliance?

- What is the impact of local food initiatives (urban agriculture, community supported agriculture (CSA's), farmers markets, community gardens, farm to school/institution) on local economies, jobs, income supplementation, workforce integration, and social capital development?
- Do local food initiatives improve food security, diet quality and long-term health outcomes of individuals with diabetes or hypertension?
- How effective are incentive programs such as farmers market vouchers and other interventions (e.g., food demonstrations and educational initiatives) at increasing the impact of local food initiatives on diet quality for individuals with diabetes or hypertension in low-income or food insecure households?

### Physical and social environment

16. What role does **food** play in one's family and upbringing, and how does that affect individuals' relationship with food as adults?

- What culturally-sensitive strategies are effective in changing social norms around eating and in achieving long-term behavior change and healthy eating?
- Can programs that adapt culturally preferred foods into healthy eating plans affect diet compliance for people with diabetes or hypertension?
- Is healthy eating affected more by personal preferences and social norms or by the availability of household/community resources on healthy eating? How does knowledge of healthy eating mediate those relationships?

17. How does the local **environment**, such as access to stores, affect the diet of people with diabetes or hypertension?

- For those with diet-restricting conditions (ex. hypertension and diabetes), what role does the food environment play in individual's ability to adhere to diet? How do individuals adapt to or navigate their existing food environment to meet their dietary needs or goals?
- How can small food retailers and others in adverse food environments be better engaged to carry and promote healthier food options?
- What role can community organizations and businesses play in promoting healthier food choices or change in the local food environment?

18. How does lack of **transportation** affect the likelihood of seeking medical treatment, resources, and services among individuals with diabetes and hypertension?

- What interventions by communities, health service providers, and health systems to reduce transportation barriers positively impact service usage those living with chronic conditions?
- Are telemedicine and internet enabled home-based care viable (in terms of cost, feasibility, and effectiveness) alternatives to regular outpatient diabetes or hypertensive care among those who lack transportation?
- For patients with chronic diseases, how do transportation barriers vary across urban, suburban, or rural areas?
- Do transportation-only interventions improve treatment compliance among patients with multiple challenges or needs?